

Fig. 1

Fig. 2 is an exploded perspective view of the chair assembly. It shows the seat assembly (10) with backrest (16) and seat cushion (26) being positioned relative to the chair frame (20). The frame includes a central column (25) and four legs (21, 22, 23, 24). The backrest (16) is shown with its internal structure (18, 27) and a top rail (30). The seat cushion (26) is shown with its internal structure (27) and a bottom rail (29). The frame (20) is shown with its central column (25) and four legs (21, 22, 23, 24). The backrest (16) is shown with its internal structure (18, 27) and a top rail (30). The seat cushion (26) is shown with its internal structure (27) and a bottom rail (29).

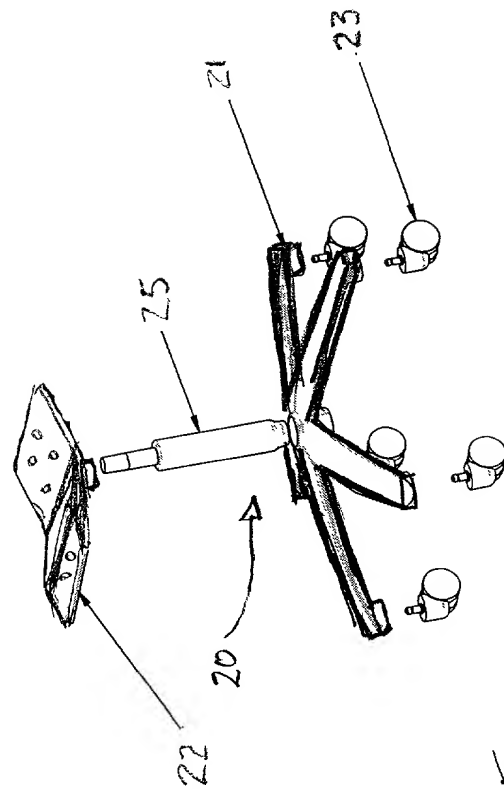


Fig. 2

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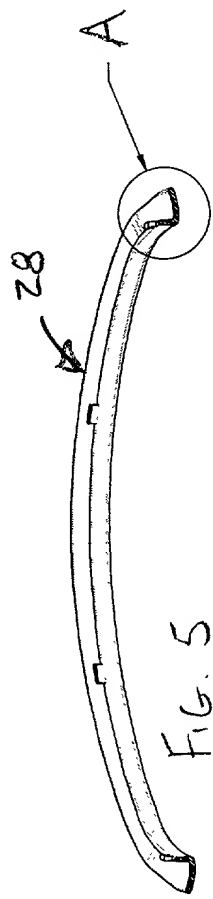


FIG. 5

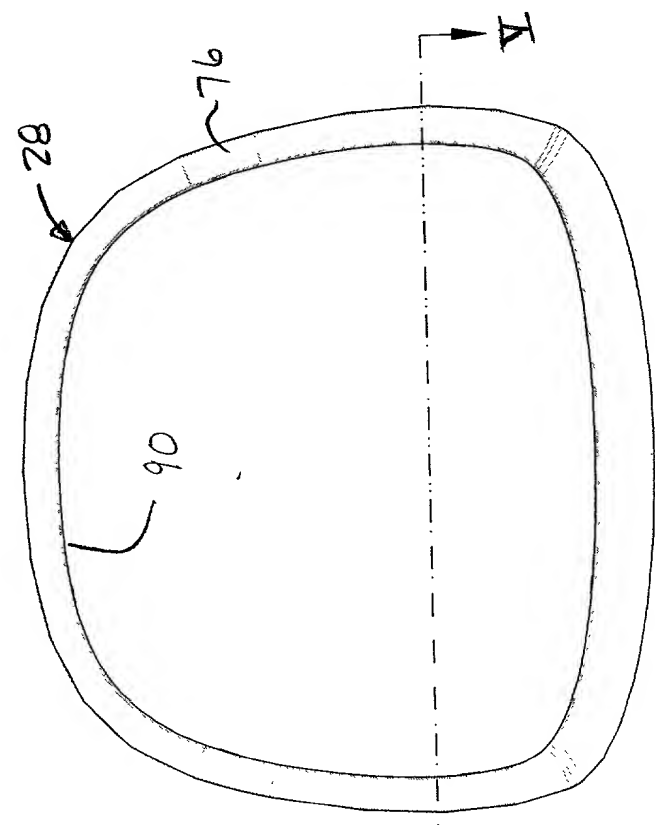


FIG. 3

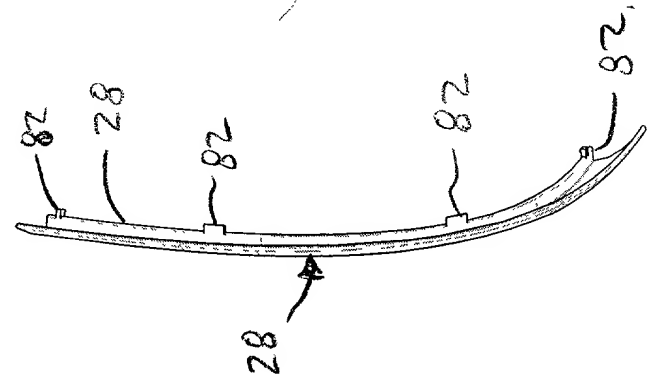


FIG. 4

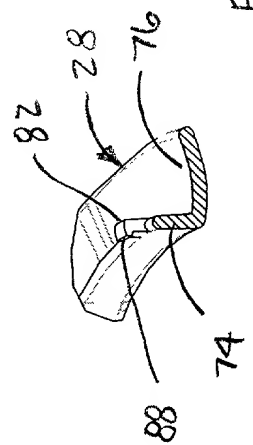
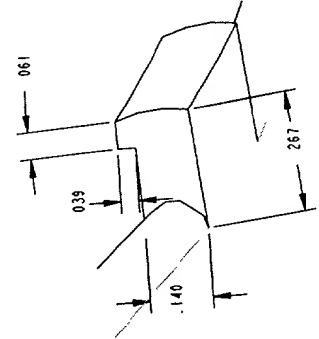


FIG. 6



SCALE 5.000

FIG. 8 and FIG. 9 are views of the device in accordance with the present invention.

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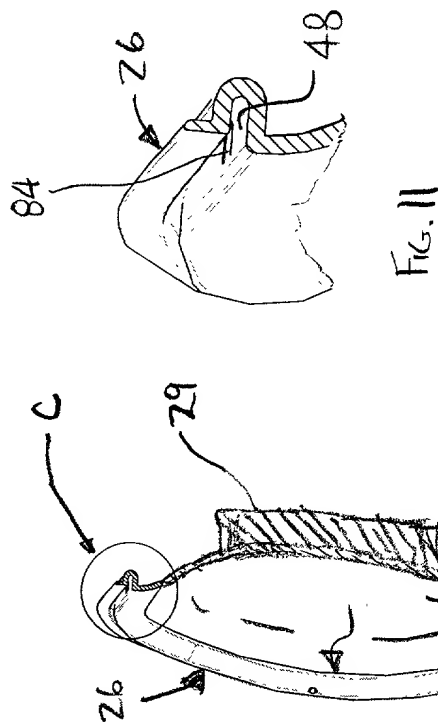
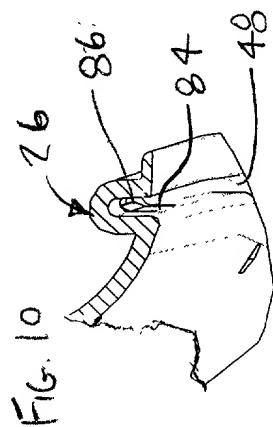
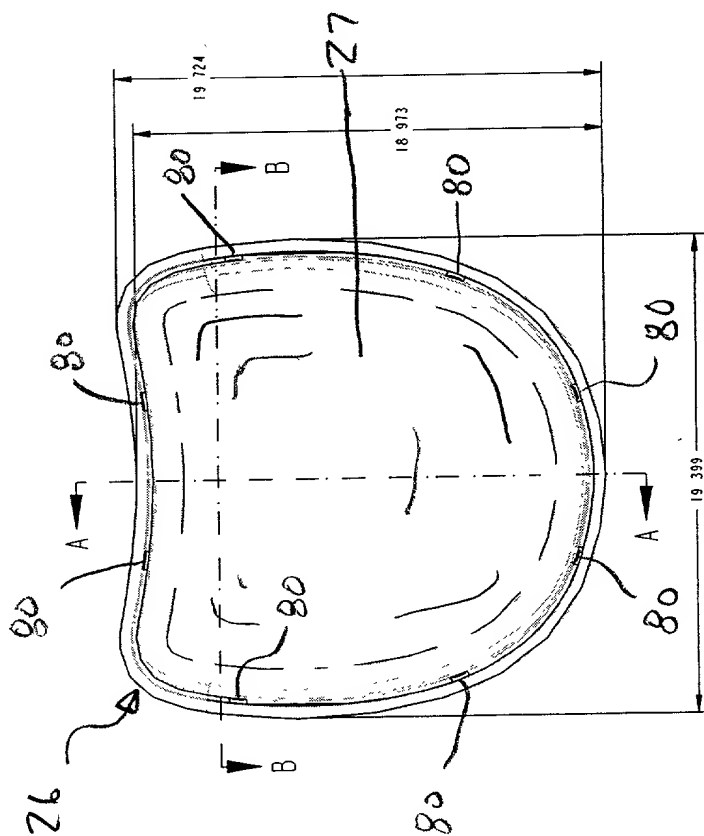
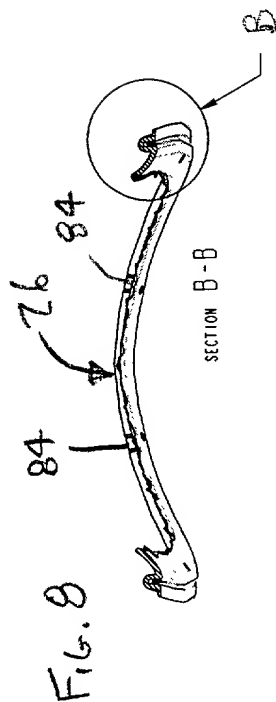
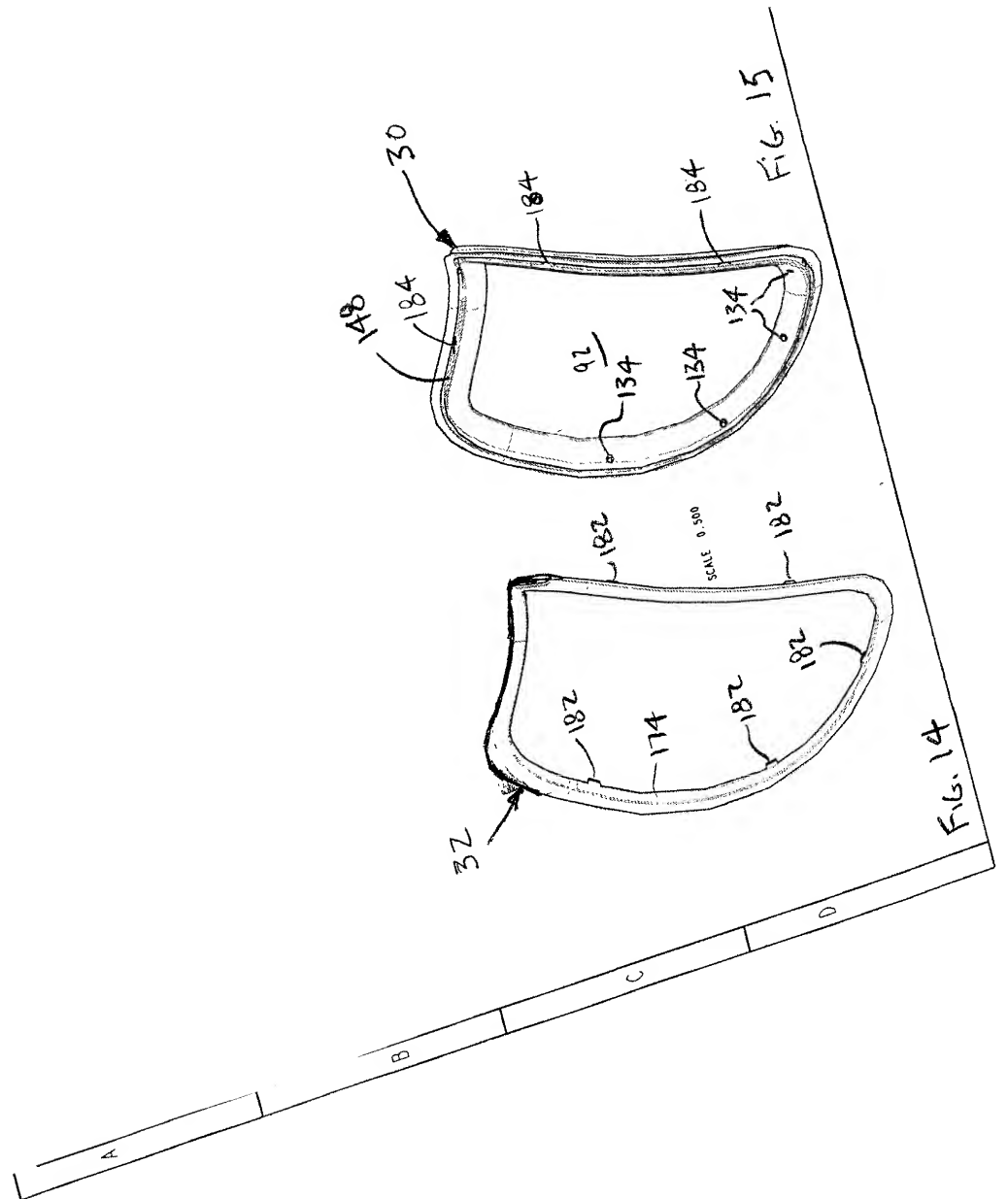


FIG. 12 is a cross-sectional view of a mechanical assembly. It shows a base structure with a vertical wall 16 and a horizontal flange 28. A component 76 is positioned against the wall 16, with a gap 74 between them. A component 82 is mounted on the flange 28. A component 48 is positioned below the flange 28, with a gap 86 between them. A component 84 is positioned above the flange 28, with a gap 88 between them. A component 26 is positioned to the right of the flange 28, with a gap 27 between them.

FIG. 13 is a cross-sectional view of a mechanical assembly. It shows a base structure with a vertical wall 16 and a horizontal flange 28. A component 26 is positioned to the right of the flange 28, with a gap 27 between them. A component 29 is positioned above the flange 28, with a gap 27 between them.

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1. The present invention relates to a method of forming a composite material having a high strength and a low weight.

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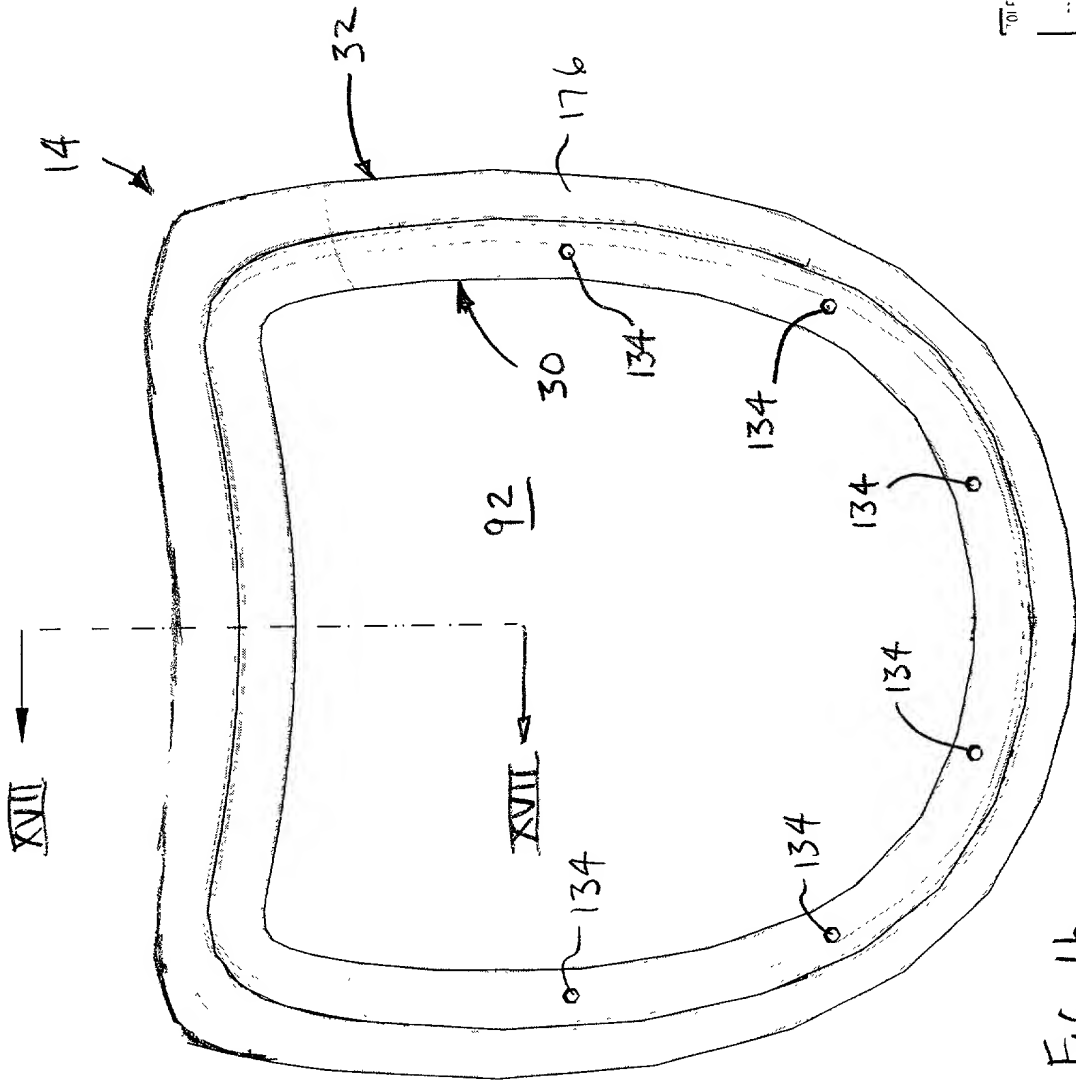


FIG. 16

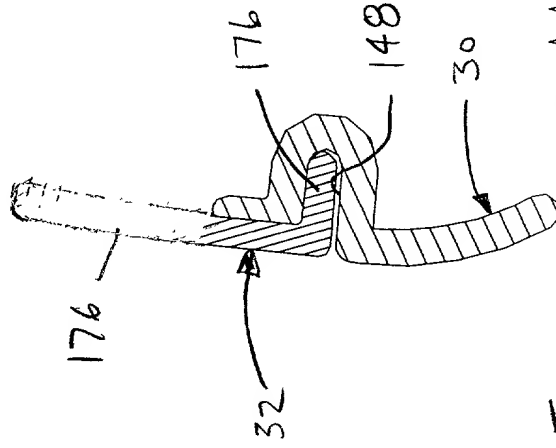


FIG. 17

SECTION A-A
SCALE 2.000

SCALE 0.500

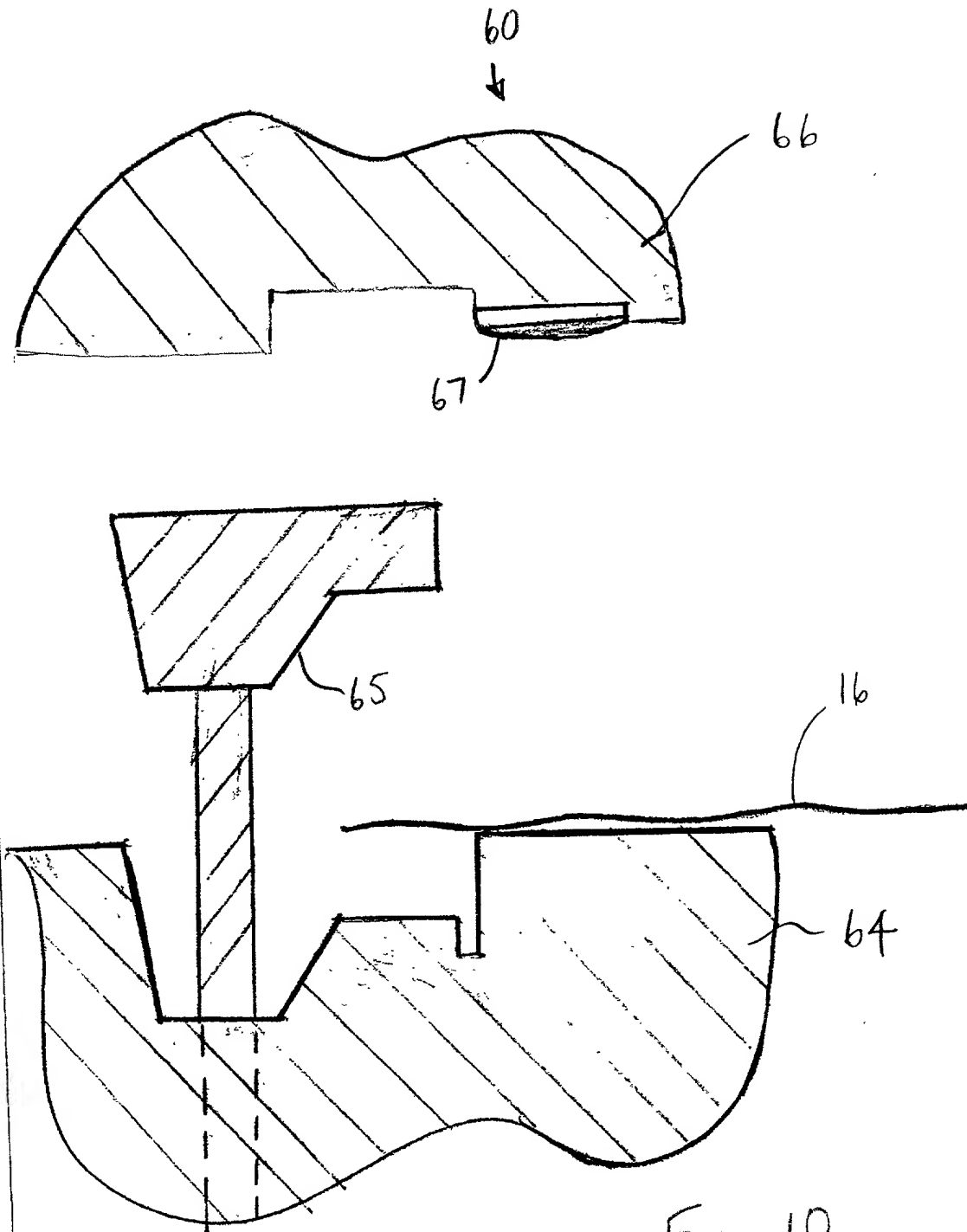


FIG. 18

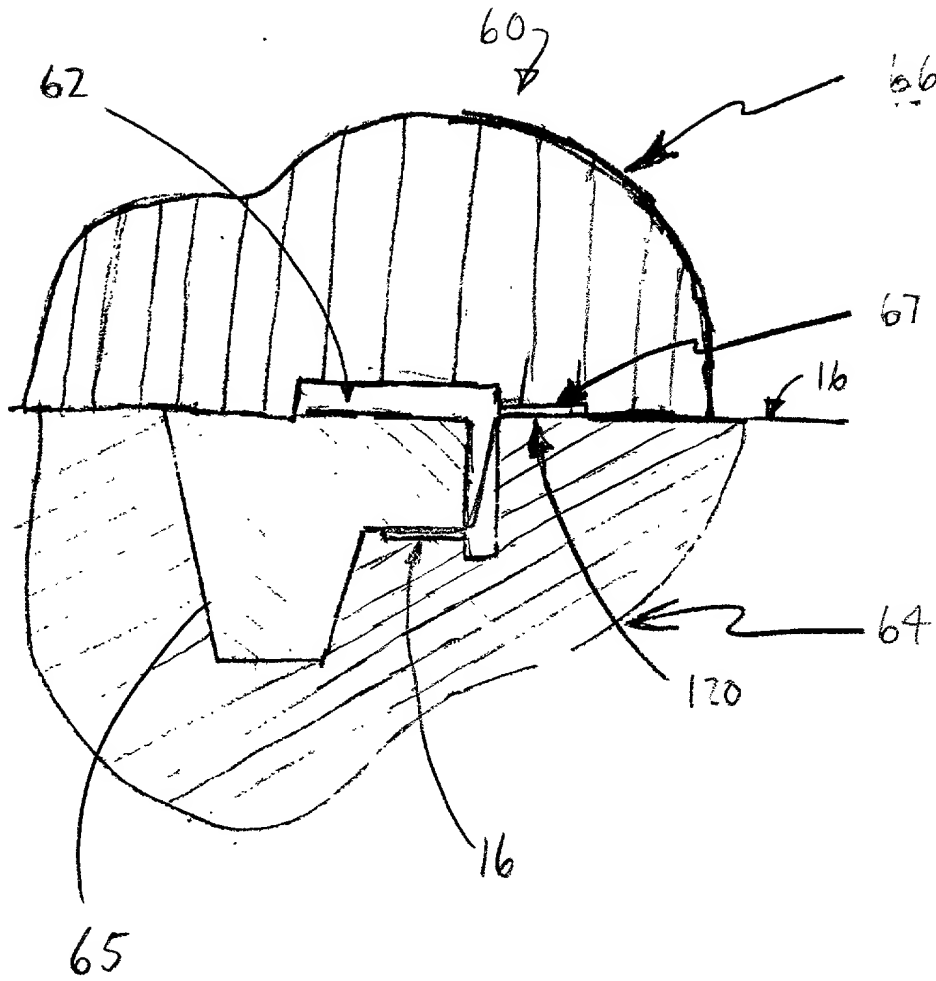


FIG. 19

